

App. No. 09/670,073
Amendment dated August 24, 2004
Reply to final Office Action of June 23, 2004

Amendments to the Claims

Please amend the claims as follows:

1. (Currently amended) A computer-readable medium having computer-executable instructions comprising:

assigning a value to a unique identifier that is used to identify a version of software associated with an executable, wherein the value is associated with update information that is used to update the corresponding version of the software;

generating a request to obtain location information of the update information using the unique identifier;

querying a first server for the location information using the request, wherein the location information includes information about a location of a second server, the second server comprising that comprises the update information associated with an executable;

linking the first server to the second server;

querying the second server for the update information;

receiving the update information from the second server; and

updating the version of the software identified by the unique identifier associated with the executable based on the update information.

2. (Previously presented) The computer-readable medium of claim 1, wherein querying a first server further comprises providing a path to a look up HyperText Transfer Protocol (HTTP) symbol location server.

3. (Previously presented) The computer-readable medium of claim 1, wherein querying a first server further comprises querying a Dynamic Host Configuration Protocol (DHCP) server and requesting Uniform Resource Identifiers (URIs) to query the second server for the update information.

4. (Previously presented) The computer-readable medium of claim 1, wherein querying a first server further comprises querying a Domain Name System (DNS) server for a service (SRV) record identifying the second server to be queried.

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5. (Currently amended) The computer-readable medium of claim 1, wherein querying a first server further comprises querying a directory service for the location information of the second server.

6. (Currently amended) The computer-readable medium of claim 1, wherein querying a first server further comprises querying an Application Configuration Access Protocol (ACAP) server for the location information of the second server.

7. (Currently amended) The computer-readable medium of claim 1, wherein querying a first server further comprises querying a Lightweight Directory Access Protocol (LDAP) server for the location information of the second server.

8. (Currently amended) A computer-readable medium having computer-executable instructions comprising:

assigning a value to a unique identifier that is used to identify a version of a local file, wherein the value is associated with a symbol that is used to update the corresponding version of the local file;

creating a path to a symbol location server based on the unique identifier without registering the path in an environment variable;

querying the symbol location server through the path for the symbol associated with a local file, wherein the path is created based on the type of symbols;

receiving the symbol symbols from the symbol location server through the path; and

updating software associated with the local file using based on the symbol received symbols.

9. (Currently amended) The computer-readable medium of claim 8, wherein assigning a value querying the symbol location server further comprises querying the symbol location server with a unique identifier composed of different values extracting the unique identifier from an image header of extracted from the local file.

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10. (Currently amended) The computer-readable medium of claim 9, wherein a value ~~the unique identifier comprises values which are~~ is not replicated between differing versions of the local file.

11. (Currently amended) The computer-readable medium of claim 8, wherein receiving the symbol symbols further comprises receiving a file comprising the symbol symbols, wherein the file is stored in a local system memory.

12. (Previously presented) The computer-readable medium of claim 8, wherein querying the symbol location server further comprises querying the symbol location server with a user customized query which extracts over a back end store.

13. (Currently amended) A computer-readable medium having computer-executable instructions comprising:

assigning a value to a unique identifier that is used to identify a version of software associated with an executable, wherein the value is associated with update information that is used to update the corresponding version of the software;

generating a request using the unique identifier to obtain from a first server location information associated with a second server, wherein the second server comprises the update information;

creating a path to the a first server -comprising location information for a second server comprising update information associated with an executable without registering the path with an environment variable;

querying the first server through the path for the location update information using the request;

receiving the update information from the first server through the path; and updating the version of the software identified by the unique identifier associated with the executable based on the update information.

14. (Currently amended) The computer-readable medium of claim 13, wherein receiving the update information further comprises receiving a reference location associated with

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on the second server which is used to access a file associated with the executable on the second server.

15. (Previously presented) The computer-readable medium of claim 13, wherein querying the first server further comprises querying a server selected from a group consisting of a DHCP server, a DNS server, an ACAP server, and a LDAP server.

16. (Previously presented) The computer-readable medium of claim 15, wherein querying the first server further comprises querying a set of servers in parallel.

17. (Previously presented) The computer-readable medium of claim 15, wherein querying the first server further comprises querying a set of servers in a serial order.

18. (Previously presented) The computer-readable medium of claim 13, wherein querying the first server further comprises packaging information extracted from the executable into a HyperText Transfer Protocol (HTTP) request and sending the HTTP request to the first server.

19. (Currently amended) A computer-readable medium having computer-executable instructions comprising:

assigning a value to a unique identifier that is used to identify a version of software associated with an executable, wherein the value is associated with update information that is used to update the corresponding version of the software;

generating a request to obtain location information of the update information using the unique identifier;

querying a first server comprising for the location information using the request, wherein the location information includes information about a location of for a second server comprising that comprises the update information associated with an executable;

receiving the location information from the first server;

creating a path to the second server based on the type of the update information without registering the path in an environment variable;

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querying the second server through the path for the update information using a syntax based on the location information; and

updating the version of the software identified by the unique identifier associated with the executable based on the update information.

20. (Previously presented) The computer-readable medium of claim 19, wherein querying a first server further comprises querying the first server using metadata associated with the executable.

21. (Previously presented) The computer-readable medium of claim 19, wherein querying the second server further comprises querying the second server using metadata associated with the executable.

22. (Previously presented) The computer-readable medium of claim 21, wherein the metadata comprises metadata for debug files.

23. (Previously presented) The computer-readable medium of claim 21, wherein the metadata comprises metadata for source files.

24. (Currently amended) The computer-readable medium of claim 19, wherein querying the second server further comprises querying the second server for symbols associated with the executable file.

25. (Currently amended) The computer-readable medium of claim 19, wherein querying the second server further comprises querying the second server for regression analysis data associated with the executable file.

26. (Currently amended) The computer-readable medium of claim 19, wherein querying the second server further comprises querying the second server for performance analysis data associated with the executable file.

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27. (Currently amended) The computer-readable medium of claim 19, wherein querying the second server further comprises querying the second server for source code associated with the executable file.

28. (Previously presented) The computer-readable medium of claim 19, wherein querying the second server further comprises receiving files comprising the update information.

29. (Currently amended) A computer-readable medium having computer-executable instructions for updating a software program associated with an executable file, comprising:

assigning a value to a unique identifier that is used to identify a version of software associated with the executable file, wherein the value is associated with update information that is used to update the corresponding version of the software;

packaging metadata extracted from the executable file into an HTTP request, wherein the metadata is associated with the unique identifier;

creating a path to a locator server without registering the path with an environment variable, wherein the locator server comprises comprising location information for a server on which the update information associated with the executable is located;

sending through the path the HTTP request to the locator server;

receiving the update information from the locator server through the path; and

updating the version of the software identified by the unique identifier program associated with the executable file based on the update information.

30. (Previously presented) The computer-readable medium of claim 29, wherein packaging metadata further comprises packaging metadata to locate an updated version of the executable file.

31. (Previously presented) The computer-readable medium of claim 29, wherein packaging metadata further comprises packaging metadata for locating a debug file associated with the executable file.

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32. (Previously presented) The computer-readable medium of claim 29, wherein packaging metadata further comprises packaging metadata to locate a specific build version of the executable file.

33. (Previously presented) The computer-readable medium of claim 29, wherein receiving the update information further comprises receiving an HTTP redirect.

34. (Currently amended) The computer-readable medium of claim 29, wherein receiving the update information further comprises receiving a location of the server on which the update information is located, and querying the server with the a unique identifier for the update information.

35. (Currently amended) The computer-readable medium of claim 34, wherein querying the server further comprises providing a an additional qualifier.

36. (Currently amended) A computerized system[[,]] comprising:
a first server comprising location information for update information that is used to update a corresponding version of software associated with a local file, wherein the version of the software is identified by a unique identifier that has an assigned value associated with the update information;

a second server comprising the update information, wherein the first server is linked to the second server through a path that is created based on the value type of update information without registering the path with an environment variable, and further wherein the first server receives the update information from the second server through the path; and

a computer comprising the a local file, wherein the first server provides the update information to the computer such that the version of the software identified by the unique identifier associated with the local file is updated based on the update information.

37. (Previously presented) The system of claim 36, wherein the update information comprises debug information.

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38. (Previously presented) The system of claim 36, wherein the update information comprises solution access information.

39. (Previously presented) The system of claim 36, wherein the computer reads the update information from the second server.

40. (Previously presented) The system of claim 36, wherein the first server comprises a HyperText Transfer Protocol (HTTP) server.

41. (Previously presented) The system of claim 40, wherein the HTTP server comprises a Dynamic Host Configuration Protocol (DHCP) server having Uniform Resource Identifiers (URIs) for querying the second server.

42. (Previously presented) The system of claim 40, wherein the HTTP server comprises a Domain Name System (DNS) server having a service (SRV) record for identifying the second server.

43. (Previously presented) The system of claim 40, wherein the HTTP server comprises a directory service for providing the location information for the update information to the computer.

44. (Previously presented) The system of claim 36, wherein the first server comprises an Application Configuration Access Protocol (ACAP) server.

45. (Previously presented) The system of claim 36, wherein the first server comprises a Lightweight Directory Access Protocol (LDAP) server.

46. (Previously presented) The system of claim 36, wherein the computer is networked to the first and the second servers over the Internet.

47. (Currently amended) A computerized system[[],] comprising:

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a first server comprising location information for update information that is used to update a corresponding version of software associated with an executable file, wherein the version of the software is identified by a unique identifier that has an assigned value associated with the update information;

a second server comprising the update information, wherein the first server is linked to the second server through a path that is created based on the value type of update information without registering the path with an environment variable; and

a computer comprising the executable file, wherein the first server is adapted to provide the computer with the location information, and further wherein the computer uses the location information to query the second server through the path for the update information such that the version of the software identified by the unique identifier associated with the executable file is updated based on the update information.

48. (Previously presented) The system of claim 47, wherein the first server is selected from a group consisting of a DHCP server, a DNS server, an ACAP server, and a LDAP server.

49. (Previously presented) The system of claim 47, wherein the computer is configured to query a hierarchy of first servers in serial order.

50. (Currently amended) The system of claim 47, wherein the computer is configured to query a hierarchy of first servers in parallel order.

51. (Previously presented) The system of claim 47, wherein the update information comprises solution access information.

52. (Previously presented) The system of claim 47, wherein the computer is configured to query the second server, in an HTTP request format, for the update information using a qualifier associated with the executable file.

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53. (Previously presented) The system of Claim 47, wherein the query to the second server is performed using metadata extracted from the executable file.

54. (Currently amended) The system of claim 53, wherein the metadata extracted from the executable file comprises metadata for a debug file associated with the executable file.

55. (Previously presented) The system of claim 53, wherein the metadata extracted from the executable file comprises metadata associated with regression analysis data for the executable file.

56. (Currently amended) A computer-readable medium having computer executable instructions to cause a computing system to perform a method for updating software associated with an executable file, comprising:

assigning a value to a unique identifier that is used to identify a version of software associated with an executable file, wherein the value is associated with update information that is used to update the corresponding version of the software;

creating a path from a lookup server to a server having the update information associated with the executable file based on the value type of update information without registering the path with an environment variable;

using the lookup server to identify location information for the server having the update information based on metadata extracted from the executable file, wherein the metadata is associated with the unique identifier;

packaging an HTTP query for retrieving the update information through the path;
retrieving the update information; and

updating the version of the software identified by the unique identifier associated with the executable file based on the update information.

57. (Currently amended) The computer-readable medium method of claim 56, wherein using the lookup server further comprises providing a response to a requesting client from the lookup server.

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58. (Currently amended) The computer-readable medium method of claim 57, wherein providing a response further comprising comprises forwarding the location information to a the requesting client as an HTTP redirect.

59. (Currently amended) A method for updating software associated with a local file, comprising:

assigning a value to a unique identifier that is used to identify a version of software associated with the local file, wherein the value is associated with update information that is used to update the corresponding version of the software;

packaging metadata extracted from the local file into an HTTP request to obtain the update information, wherein the metadata is associated with the unique identifier associated with the local file;

sending the HTTP request to a locator server;

receiving location information from the locator server;

packaging an HTTP query for retrieving the update information-associated with the local file based on the location information; and

updating the version of the software identified by the unique identifier associated with the local file based on the update information-associated with the local file.

60. (Currently amended) The method of claim 59, wherein packaging the HTTP query further comprises qualifying the HTTP query to select a specific file version from the update information-associated with the local file.

61. (Previously presented) The method of claim 60, wherein qualifying the HTTP query further comprises qualifying the HTTP query to select an updated file version associated with the local file.

62. (Previously presented) The method of claim 60, wherein qualifying the HTTP query further comprises qualifying the HTTP query to select a specific debug file associated with the local file.

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63. (Currently amended) A server architecture[[],] comprising;

a first server comprising location information for update information that is used to update a corresponding version of software associated with an executable file, wherein the version of the software is identified by a unique identifier that has an assigned value associated with the update information;

a second server linked to the first server based on the value, wherein the second server comprises the update information associated with the an executable file;

means for interpreting metadata associated with the unique identifier executable file received by the first server from a remote client;

means for redirecting the remote client to the second server, wherein the second server is adapted to interpret a query from the remote client for retrieving the update information;

and

means for updating the version of the software identified by the unique identifier associated with the executable file based on the update information.